

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/053581 A1**

(51) International Patent Classification<sup>7</sup>: A61F 2/46 B01F  
13/00, 11/00, B05C 17/00

(72) Inventor; and

**(21) International Application Number:**

PCI/NL 2004/000827

(72) Inventor; and  
(75) Inventor/Applicant (for US only): DE VRIES, Jan, Albert [NL/NL]; 6, Wolfersveenweg, NL-7021 HH Zelhem (NL)

(22) International Filing Date:

29 November 2004 (29.11.2004)

(74) Agent: VOLMER, J., C.; Exter Polak & Charlouis B.V.,  
P.O. Box 3241, NL-2280 GE Rijswijk (NL).

**(25) Filling Language:**

## English

(26) Publication Language:

## English

**(30) Priority Data:**

Priority Data: 60/525,917 1 December 2003 (01.12.2003) US

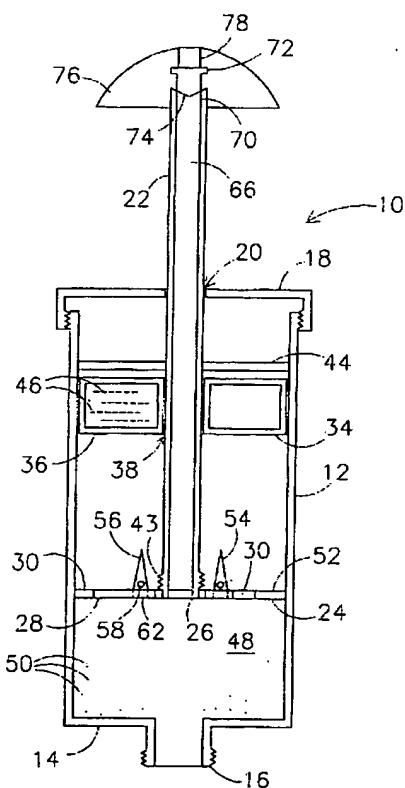
(71) *Applicant (for all designated States except US):*  
**BROCKEVILLE CORPORATION N.V. [NL/NL];**  
Landhuis Joonchi, Kaya Richard J Beaujon z/n, Willemstad, Curacao (AN)

(81) **Designated States** (*unless otherwise indicated for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, IJ, IM, TN, IR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

**(54) Title: A TOW-COMPONENT MIXING AND DISPENSING DEVICE**



**(57) Abstract:** A device (10) for preparing and ejecting polymeric cement made from at least two pre-packaged components comprises a tubular vessel (12) including a first axial end wall (14) having a closed outlet (16), and a second axial end wall (18) having an aperture (20). A first starting component (50) of the polymeric cement is present inside said tubular vessel near the first axial end wall (14). A shaft (22) extends through said aperture (20) of the second axial end wall (18). A piston element (34) comprises a closed container (36) filled with a second starting component (46) of the polymeric cement. The piston element (34) is selectively lockable to the shaft (22). The container has a bore (38) and is slidingly engaged upon said shaft. An agitator element (24) is secured to one end of the shaft (22). Furthermore opening means (56) for providing an opening in the closed container (36) are provided.

**BEST AVAILABLE COPY**

WO 2005/053581 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette*